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(54) Title: GLYCOSYLCERAMIDE ANALOGUES

(57) Abstract: Glycosylceramide analogues are disclosed in which the ceramide moiety and optionally the carbohydrate moiety are modified or replaced. These analogues are useful as immunomodulators, antitumor agents, and as other pharmaceutical agents.

INTERNATIONAL SEARCH REPORT

International application No

PCT/US03/3061 1

A. CLASSIFICATION OF SUBJECT MATTER					
IPC(7) A61K 31/70, C07H 15/00					
US CL	US CL 5 14/25, 536/4 1 17 2				
According to International Patent Classification (IPC) or to both national classification and IPC					
B. riELDS SEARCHED					
Minimum documentation searched (classification system lollowed by classification symbols) US 514/25 536/4 1 17 2					
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Electronic data base consulted during the international search (name of data base and where practicable search terms used)					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where ap	propriate, of	the relevant passages	Relevant to claim No	
, A .	US 5,202,357 A (BOWSER et al) 13 April 1993 (12 column 8, lines 1-8	1 04 1993), c	olumn 7, lines 35 67 and	1-45, 49 55, 62-98, 140 and 141	
Further	documents are listed in the continuation of Box C	s.	ee patent family annex		
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INTERNATIONAL SEARCH REPORT

Internationa I application No

PCT/US03/3061 .1

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)				
This international report has not heen established in respect ot certain claims under Article 17(2)(a) for the tallowing reasons				
Claim Nos because they relate to subject matter not required to be searched by this Authority namely				
Claim Nos I ₄₂ and 143 because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically These claims are not listed				
Claim Nos 46 48 56-61,99 139 and 144 149 because they are dependent claims and are not dratted in accordance with the second and third sentences of Rule 6 4(a)				
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)				
This International Searching Authority tound multiple inventions in this international application as follows				
As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims				
As all searchable claims could be searched without effort justifying an additional fee this Authority did not invite payment of any additional fee				
As only some of the required additional search fees were timely paid by the applicant this international search report cen ers only those claims for which tees were paid specifically claims Nos				
No required additional search tees were timely paid by the applicant Consequently this international search report is restricted to the invention first mentioned in the claims, it is covered by claims Nos				
Remark on Protest The additional search fees were accompanied by the applicant's protest No protest accompanied the payment of additional search fees				

Form PCT/ISA/2 10 (continuation of first sheet(1)) (July 1998)